MAMONTOV, C. V.

"Salculation of the Transient Processes in Complicated Linear Circults by Means of the Fourier Integral."

Dissertation for the Degree of Candidate of Technologia Sciences, defended at Institute for Power Engineering imeni Krzhizhanovskiy AS USSR, 17 September 1953, (Elektrichestvo, 1959, Nr 4, $^{\circ}6\text{-}^{\circ}7$).

9(2)

Mamontov, O.V., Engineer

SOV/143-58-10-4/24

AUTHOR: TITLE:

A Transistorized Power Direction Control Unit

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1958, Nr 10, pp 26-28 (USSR)

ABSTRACT:

Power direction control units are used in a number of relay protection devices for power distribution networks. In high-frequency directional protectors they are basic elements. The power direction in an electric transmission line is determined by measuring the phase angle between the current and the voltage. The development of electronic protectors requires suitable units built of electronic elements. A transistorized power direction control unit may be used for measuring the phase angle between two sinusoidal voltages. A similar principle was previously used by the author for this purpose in a high-frequency differential-phase protector /Ref 17. A coincidence circuit (logic circuit AND, shown in Figure 1) may be used for this purpose. Two sinusoidal voltages having the same free

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4 purpose. Two sinusoidal voltages having the same fre-

A Transistorized Power Direction Control Unit SOV/143-58-10-4/24

quencies are fed to the two circuit inputs. The average voltage value at the circuit outlet U will be proportional to the phase angle # between these voltages: Uav = k. The phase angle may be determined

by measuring the outlet voltage. A simplified principal circuit with two transistors is shown in figure 2. The sinusoidal voltages U_1 and U_2 are fed thru two matched transformers to the transistor bases. At the circuit outlet a one-sided, periodic sequence of negative, rectangular pulses having the feet voltage frequency (50 cycles) is abtained. The width of the rectangular pulses a depends on the phase angle Ψ between the voltages U_1 and U_2 in the following way: $\alpha = 180^\circ - \mathcal{I}$. The dependence of the average voltage value at the circuit outlet from the angle \mathcal{I} is shown in figure 3. An additional phase shift between the voltages may shift the angular characteristics. A similar measuring circuit may be used as a separate unit in an electronic protector or it may be used for building a power direction relay. A simplified basic

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A Transistorized Power Direction Control Unit SOV/143-58-10-4/24

circuit of a power direction relay, built on the aforementioned principle, as shown in figure 3. Here an additional phase shifting circuit is used. The relay starts operating when the current phase in the current transformer is shifted by 180°, since such shifts occur during failures. The angular characteristic of the relay is shown in figure 4. The characteristic ocorresponds to a setting for operation equal to 100°. The relay contain three P-6 transistors and one P-3. A 24-volt MKU-48 output relay with an operating current of 35 milliamps was used. The aforementioned relay was successfully tested the the Laboratoriya upravlyayushchikh mashin i sistem AN SSSR (Laboratory of Control Machinery and Systems of the AS USSR). T.F. Sosina participated in this work. Some creep of the operating characteristic (up to 5 -8°) was observed, caused by temperature and other factors. There are 1 block diagram, 2 circuit diagrams, 2 graphs

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CIA-RDP86-00513R001032110003-0 "APPROVED FOR RELEASE: 03/13/2001

A Transistorized Power Direction Control Unit SOV/143-58-10-4/24

and 1 Soviet reference.

ASSOCIATION: Laboratoriya upravlyayushchikh mashin i sistem AN

SSSR (Laboratory of Control Machinery and Systems of

the AS USSR)

SUBMITTED: July 17, 1958

Card 4/4

MAMONTOV, O.V., kand.tekhn.nauk

Phase-differential high-frequency protection equipped with crystal tricdes. Elek.sta. 29 no.5:64-66 My '58. (MIRA 12:3)

(Electric cutouts) (Transistors)

MAMORTOV, 0.V., kend.tekhn.nauk

High-output transceiver for high-frequency protection. Elek.sta.
29 no.8:53-55 Ag '58. (MIRA 11:11)

(Electric power distribution—High tension)

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9(2)

SOV/143-59-3-4/20

AUTHOR:

Mamontov, O.V., Candidate of Technical Sciences

TITLE:

A Transistorized Pulse Element for Power Direction Control (Impul'snyy organ napravleniya mushchnosti

na kristallicheskikh triodakh)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika.

1959, Nr 3, pp 28-31 (USSR)

ABSTRACT:

The author describes a transistorized relay for power direction control. The basic component, the pulse element, is a coincidence circuit (logical system AND). Its circuit diagram is shown in figure 2. The element determines the phase relations between two sinusoidal voltages; one U₁, is proportional to the line current, while U₂ is proportional to the voltage. Using one of the given voltages, for example U₁, negative pulses are shaped in such a way that they coincide with the zeros of this voltage during its increase, i. e. at all the pulses pass thru the resistor

 $\frac{dU_1}{d+} > 0$.

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SOV/143-59-3-4/20 A Transistorized Pulse Element for Power Direction Control

R₁ and enter the collector of the transistor, which is normally closed, and are cut off. The sinusoidal voltage U2 is applied at the transistor base which effects a blocking of the transistor upon passage of a positive half-wave. The transistor is opened when a negative half-wave passes. A pulse at the circuit outlet will appear only in case it coincides in time with the positive half-wave of the voltage U2. As long as power is flowing from the bases into the line, the pulses will coincide with the negative half-wave voltage at the base of the transistor and will be cut off. When the power direction changes, i.e. when the power flows from the line to the bases, the pulses will coincide with the positive half-wave, enter the transistor collector at the moment when it is blocked and will proceed to the circuit outlet. In this way, pulses will appear at the circuit outlet only in case the direction of the power flow is changed. A relay for controlling the power direction was developed on the principle of the aforementioned circuit. Its block

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SOV/143-59-3-4/20

A Transistorized Pulse Element for Power Direction Control

diagram is shown in figure 3 and its circuit diagram in figure 4. It consists of a phase-shifting circuit, a pulse-shaping circuit, a logical circuit "AND", a trigger and the MKU-48 outlet relay. Transistors P3, P4, etc may be used for the trigger, while transistors P6 were selected for the other circuits. In the phase-shifting circuit, the voltage U1 is being shifted additionally for providing optimum phase ratio. The angular characteristic of the power direction relay is a dependence between the current at the outlet relay and the phase shift between the voltages U1 and U2, as shown in figure 5. As long as the phase angle will remain within the limits of + 90°, there will be no current flowing thru the relay. In case the phase angle is greater than 90°, the relay current will change suddenly. The functioning time of the electronic part of the relay is determined by the number of comparisions within one cycle. It does not exceed one cycle of industrial frequency. Analoguously a comparison

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SOV/143-59-3-4/20 A Transistorized Pulse Element for Power Direction Control

may be performed during each half cycle. In this case, the operating time is shortened twice, but the circuits will be more complicated. The relay was tested at the Laboratory of Control Machinery and Systems of the AS USSR under participation of T.F. Sosina. There are 2 block diagrams, 2 circuit diagrams, 1 graph and 2 Soviet references.

ASSOCIATION: Laboratoriya upravlyayushchikh mashin i sistem AN

SSSR (Laboratory of Control Machinery and Systems

of the AS USSR)

SUBMITTED: July 17, 1958

Card 4/4

8(6)

SOV/105-59-5-2/29

AUTHOR:

Mamontov, O. V., Candidate of Technical Sciences

TITLE:

Computation of Transition Processes in Complex Three-phase Circuits With Rotating Machines (Raschet perekhodnykh

protsessov v slozhnykh trekhfaznykh tsepyakh, soderzhashchikh

vrashchayushchiyesya mashiny)

PERIODICAL:

Elektrichestvo, 1959, Nr 5, pp 5-9 (USSR)

ABSTRACT:

The method of computing the transition processes in circuits with rotating electric machines with smooth rotor and "distributed" winding is described here. The method is based on the application of the Fourier integral. The rotor symmetry existing in these machines facilitates very much the computation, but if the wiring to be computed contains circuits with "distributed" (raspredelennyy) and consentrated (sosredotochennyy) constants, the transition process is expressed by a great number of differential equations. This system of equations can be solved according to the method of the Fourier integral. The important advantage of this method is the possibility of reducing the computation of the transition processes to an analysis of all stabilized working processes. Therefore, a computer board

Card 1/4

SOV/105-59-5-2/29 Computation of Transition Processes in Complex Three-phase Circuits With Rotating Machines

can be used for computing transition processes in complex circuits. The equation of the transition process is indicated in the form of (1), and the reaction of the system on the effect of the disturbance is indicated in the form of a sine function (2). Formula (2) is solved by formulas (3) and (4), respectively (Ref 9). Because of the mechanical shifting of the rotor windings with reference to the immovable stator winding with an angular velocity Ω , the matrix of the transition-process equation becomes asymmetrical. For an induction motor with shortcircuited rotor, for instance, it has the form of formula (6). The fact that terms with p $\dot{\mathbf{I}}$ j \mathcal{Q} appear in the equations of the transition processes effects that the real and imaginary parts of the amplitude-phase-frequency characteristic show no symmetry in wirings with rotating machines (in contrast to wirings with only passive elements): formulas (7). Therefore, it is necessary to determine the frequency characteristic both for positive and negative frequencies. Because of the asymmetry of the frequency characteristic, the required integrals are determined in formulas (3) and (4), separately for positive and negative frequencies.

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SOV/105-59-5-2/29

Computation of Transition Processes in Complet Three-phase Circuits With Rotating Machines

Thus, the problem to be solved is the determination of the integrals in (8) and (9). The computation of these integrals is very difficult in an analytic way. Therefore, they are computed by approximation of the step function (Ref 9) of the real (or imaginary) frequency characteristic obtained on the computer board. Formulas (8) and (9) are represented in form of (11) and (12), respectively. The frequency characteristic of a complicated circuit can be determined with the computer for alternating current. The characteristics caused by the presence of the rotating machines are pointed out for obtaining the frequency characteristic .- To be able to compare the results of a computation of transition processes according to the method of the Fourier integral with the results of computation by the exact (operator) method, 2 relatively easy problems are calculated here as examples in the appendix. There are 5 figures and 9 Soviet references.

ASSOCIATION: Card 3/40

Institut elektronnykh upravlyayushchikh mashin AN SSSR (Institute of Electronic Control Machines of the AS USSR)

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E041/E421

AUTHORS:

Lion, G.Ya., Engineer, Mamontov, O.V., Candidate of Technical Sciences and Fomicheva, I.I., Engineer

TITLE.

Electronic Differential Phase Protection Using

Semiconductor Elements

PERIODICAL: Elektricheskiye Stantsii, 1960, No.2, pp.72-75

The principle of the protective system is as follows: A narrow (0.2 to 0.3 microsec) pulse sent into a transmission line is used to cancel out the pulse reflected from the far end. experimental version of the system has been working continuously since 1958 on a 220 kV line. Over a period of 450 days since July 1959, the installation has been tested over 400 times without During this time, the receiver bandwidth has remained a failure. constant although its centre frequency has drifted slightly. was traced to the ferrite cores used. The behaviour of this new protective system was compared with another parallel system A\$3-2 (DFZ-2) and found satisfactory. On two occasions, the system operated from one end of the line. In one case this was due to a difference in sensitivities of two circuits in the other

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S/104/60/000/002/001/003 E041/E421

Electronic Differential Phase Protection Using Semiconductor Elements

because one circuit was still in a recovering condition. Transistors type \$\Pi_1\$ \$\Pi_2\$ \$\Pi_3\$ and \$\Pi_6\$ \$(P1, P2, P3 and P6) are used. A Pl failed after 1500 hours, a P3 after 4780 hours. There are 46 germanium diodes in the system, all type \$\Pi_1 - \Pi_2 4\$ (DG-Ts24): none have failed. There are 28 devices using ferrite cores types \$\Pi_2 = 1\$ (SB 1). \$\Pi_5 = 5\$ (SB 5) and \$\Pi_1 = 7\$ (Sh 7). It is concluded that Soviet transistors have yet to prove themselves suitable for use in protective systems. The results of laboratory tests were presented at a joint meeting of the Relay Protection Section MO NTOFP and the Long Distance Transmission Commission of the Power Engineering Institute AS USSR (Komissii dal'nykh peredach pri Energeticheskom institute AN SSSR) in 1956. There are 2 tables and 5 Soviet references.

Card 2/2

MAMONTOV, Oleg Vasil'yevich; FILARETOVA, A.S., red.; SHIROKOVA, M.M., tekhn. red.

[Methods of cybernetics in the theory of electronic protective relays] Metody kibernetiki v teorii elektronnykh releinykh zashchit. Moskva, Gosenergoizdat, 1962. 295 p. (MIRA 15:7) (Cybernetics) (Electronic control)

s/105/62/000/002/001/002 E140/E463

AUTHOR:

Mamontov, O.V., Candidate of Technical Sciences (Moscow)

TITLE:

The perspectives of cybernetics applications in the

theory of relay protection of power networks

PERIODICAL: Elektrichestvo, no.2, 1962, 6-10

The author analyses the general scheme of a relay protection system to demonstrate that it too corresponds to the generalized closed-loop control system studied in cybernetics. There is the controlled object, sensitive organs (receptors), principal organs (program for determining causes or locations of faults and for defining the program of protection) and executive The controlled object is itself organs (circuit breakers etc). nowhere defined. After relating these parts of a relay protection system to the principal concepts of cybernetic control systems the author draws some conclusions. He mentions that: cybernetics permits classification of protection system and generalized methods of analysing them; information theory permits study of signal/noise relations in the transmission of information within the system; game theory permits the protection and the power system to be conceived as opponents and the optimal system Card 1/2

The perspectives of cybernetics ...

S/105/62/000/002/001/002 E140/E463

determined. There are 3 figures and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref.6: Wiener N., The extrapolation, interpolation and smoothing of stationary time series, 1949, N 9.

SUBMITTED: April 19, 1961

Card 2/2

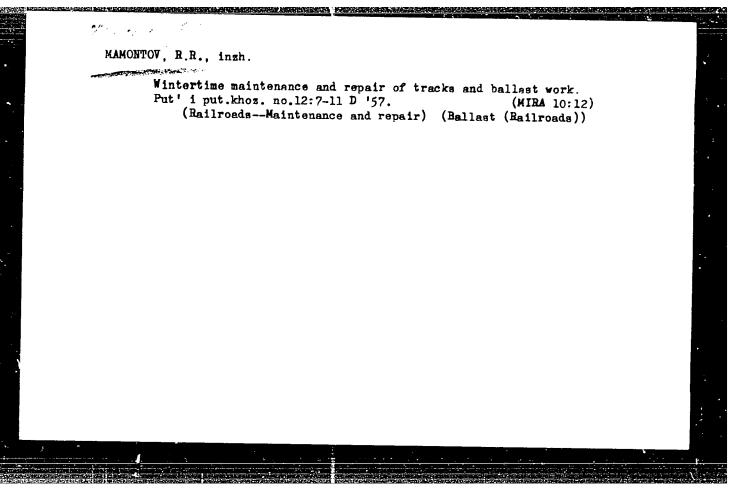
MAMONTOV, P.P.

Possibility of introducing motion pictures in long-range weather forecasting. Nauch.dokl.vys.shkoly; geol.-nauki no.4:106-107 '58.

(MIRA 12:6)

1. Moskovskiy universitet, kafedra uchebnoy i nauchnoy fotografii i kinematografii.

(Weather forecasting)
(Motion pictures in meteorology)

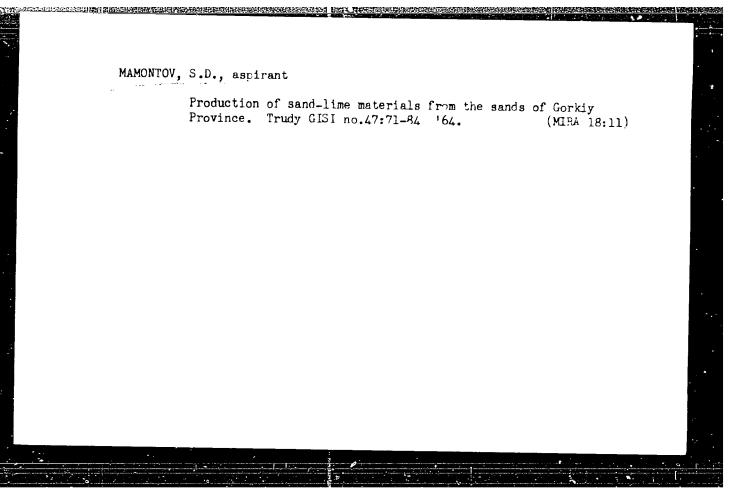


DOROSHEVICH, Anatoliy Titovich; TYURIKOV, Aleksandr Afanas'yevich; MAMONTOV, Roman Romanovich; POTOTSKIY, G.I., red.; BOBLOVA, Ye.N., tekhn.red.

[Track maintenance on roads carrying heavy loads; work practices of the Kalachinsk section of the Omsk Railroad] Soderzhanie puti v usloviiakh vysokoi gruzonapriazhennosti; opyt raboty Kalachinskoi distantsii puti Omskoi dorogi. Moskva, Vses.izdatel'sko-poligr. ob*edinenie M-va putei soobshcheniia, 1960. 47 p.

(Railroads -- Maintenance and repair)

(MIRA 13:9)



PHASE I BOOK EXPLOITATION SOV/4556

- Ayzenberg, B.I., Engineer, B. M. Kleymenov, Engineer, S.K. Mamontov, Engineer, B.M. Meyl'man, Engineer, Ya. S. Mindlin, Engineer, A.M. Palant, Engineer, and Ye. S. Yampol'skiy, Engineer
- Proyektirovaniye mashinostroitel'nykh zavodov; spravochnoye posobiye po organizatsii i metodike proyektirovaniya (Planning of Machine-Building Plants; Reference Book on the Organization and Methods of Planning) Moscow, Mashgiz, 1960. 379 p. Errata slip inserted. 13,000 copies printed.
- Ed.: B.I. Ayzenberg, Engineer; Reviewer: I.S. Zotov, Engineer; Ed. of Publishing House: V.I. Yakovleva; Managing Ed. for Information Literature; I.M. Monastyrskiy, Engineer; Tech. Ed.: Z.I. Chernova.
- PURPOSE: This book is intended for engineers and technicians engaged in planning machine-building plants.
- COVERAGE: The authors discuss problems in the organization of planning machine—building plants. Included is information on the makeup of planning organizations, development of documentation, selection of construction site, investigations of plants to be reconstructed, preparation of planning, examination and Card 1/9

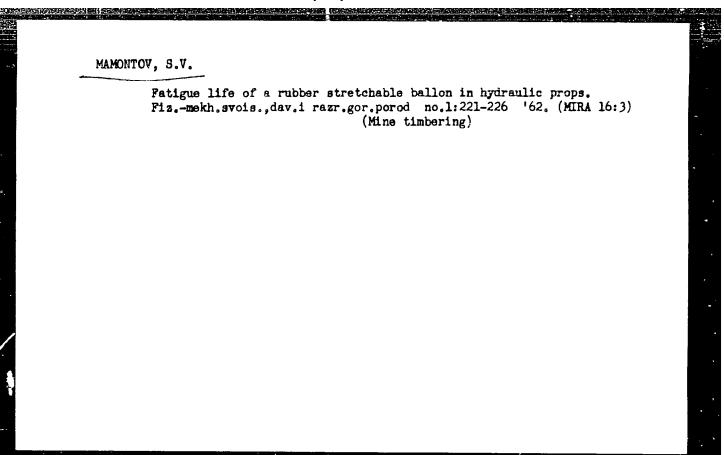
Planning of Machine-Building (Cont.) SOV /4556 approval of documentation, and mechanization of calculations and drafting. Definition of principal concepts are given and the contents of the planning documentation are discussed. No personalities are mentioned. References accompany two TABLE OF CONTENTS: Ch. I. Organization of Planning (By A.M. Palant, Engineer) Planning organizations 5 Statute of the main planning institute 5 Planning the design and investigative work, and the operations of planning 6 Apportionment of resources for planning and investigating, and financing 9 planning organizations Relations between customers ordering plans and the chief planning organiza-11 Relations between chief and specialized planning organizations 21 Contract regulations regarding execution of plans and investigations 24 Determining planning cost. Planning price lists. List of headings. 26 Norms for direct and overhead expenses of planning and in investigating 35 Card 2/Q

MAMONTOV, S.V., inzh.

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Effect on the inertia of a safety valve on the operating stability of a hydraulic mine support. Nauch. soob. IGD 11: 84-102 (MIRA 16:4)

(Mine timbering)



Studying the manifestation of rock pressure when testing combined hydraulic props. Fiz mekh.svois.,dav.i razr.gor.porod no.l: (MIRA 16:3) (Mine timbering) (Rock pressure)

MAMONTOV, V.

Let's finish with amateurism. Prof. tekh.obr. 19 nc.3:22-29
Mr '62. (MIKA 15:4;

1. Starshiy master uchebnogo kombinata treste "Kazmetallurgstroy",
g. Temir-Tau. (Building trades-Audio-visual aids)

MAMONTOV, V. (Temir-Tau) To chek means to help. Prof.-tekhn.obr. 19 no.11:29 N '62. (MIRA 16:2) 1. Starshiy inzh. proizvodstvennogo obucheniya Uchebnogo kombinata tresta Kazmetallurgstroy. (School supervision)

MAMONTOV, V., inzh. tekinicheskogo ubudueniya

Planning an: visual aids in the training of assemblers. Prof.-tekh.
obr. 21 no. 3:20-27 Ag 'c4.

1. Uchetnyy kombinat tresta Kazmetallungstroy Karayanddinskay oll.

- 1. MAMONTOV, V. A.
- 2. USSR (600)
- 4. Fruit Culture Ryazan' Province
- 7. Organization of large-scale commercial fruit growing in Ryazan' Province. Sad i og. no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

30V-120-50-5-31/33

AUTHORS: Karateria, B. Co., Gridneva. 1. A., a contav. 7. 7.

Application of Industive "Jordaeto" in the Weak particle of Mechanical Quantities (Frimene Ligh inclustsio nego as a "yema pri izmerenii mekhanicheskikh velichin)

FERIODICAL: Pribory i Tethnika Emperimenta, 1990, No. 3 107-10

AB STRACT: Hormally, slip-rings are used in the contart of mechanical quantities in potenting parts of succlines. In order to remove errors associate; with this technique, the authors have developed a sethod shoreby the energy from the rotation specimen is the saitted to the fixen a same device through an inductive compliant. The system is based on a transformer element, the ricary of which is attached to the moving element and rotates with it, and the secondary is stationary and attached to the measuring a maratus. The mechanical fetails are shown in Figs. the electronic circuit in Fig.1. The fixed one addry in connected to a two-stype and lifter. The coll with the pressioner characteristic in Fig.

Card 1/2

Application of Inductive "Contacts" in the Measurests of Machiner the region 50 - 15 000 Me/s. Bayori must accomplish and inductive "and tact" is convenient that relieves and 5 figures and 5 Soviet references.

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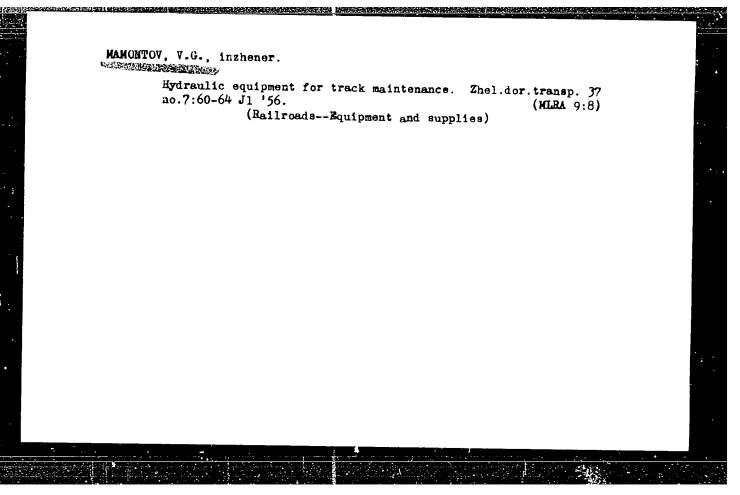
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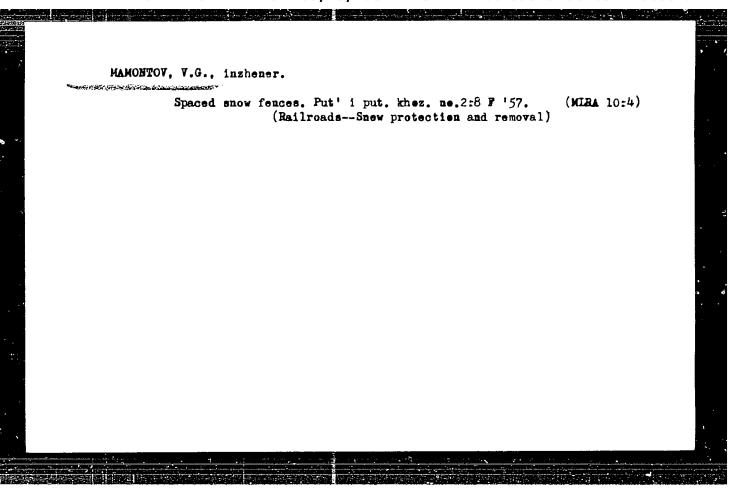
TKACH, F.F. (Novokuznetsk Kemerovskoy obl.); MAMONTOV, V.F. (Novokuznetsk Kemerovskoy obl.)

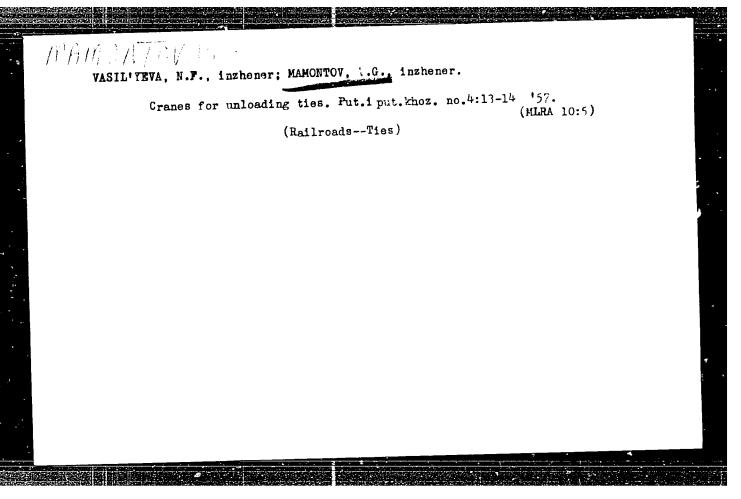
Apparatus for welding flanges. Stroi. truboprov. 8 no.6:30 Je '63. (MIRA 16:7)

1. Starshiy inzh. stroitel'nogo upravleniya Santekhstroy tresta Vostokgidrospetsstroy (for Tkach). 2. Glavnyy svarshchik stroitel'nogo upravleniya Santekhstroy tresta Vostokgidrospetsstroy (for Mamontov).

(Pipe flanges—Welding)







(MIRA 13:9)

MAMONTOV. Wiktor Georgiyevich, inzh.; PROVODINA, M.N., inzh., red.; MEDVEDEVA, M.A., tekhn.red. [New mechanisms for track maintenance; suggestions made by D.D.Matveenko, Hero of Socialist Labor and mechanic of the Moldavian Railroad's Bendery section] Novye putevye mekhanizmy; opyt sleseria Benderskoi dictantsii puti Moldavskoi dorogi, Gercia Sotsialisticheskogo Truda D.D.Matveenko. Moskva. Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia,

1960. 33 p. (Railroads -- Maintenance and repair)

KRAYNOV, I. I., dorozhnyy master; MAMONTOV, V. G., inzh.

Pastenings with dowel bolts for reinforced concrete ties. Put'
i put. khoz. 5 no.9:15-17 -62. (MIRA 15:10)

(Railronds--Rails--Fastenings)

BOGDANOV, Aleksey Vyacheslavovich; SLUTSKIN, Grigoriy Solomonovich:

MAMONTOV, V.G., inzh., retsenzent; VICHEREVIN, A.Ye., inzh., red.;

DROZDOVA, N.D., tekhn. red.

[Prolonging the life of elements of the superstructure] Prodlenie sroka sluzhby elementov verkhnego stroeniia puti; iz opyta raboty peredovykh kollektivov. Moskva, Transzheldorizdat, 1963.

(MIRA 16:5)

(Railroads--Maintenance and repair)

MAMONTOV, V.G., inzh., otv. za vypusk; SERGEYEVA, A.I., red. izdva; USENKO, L.A., tekhn. red.

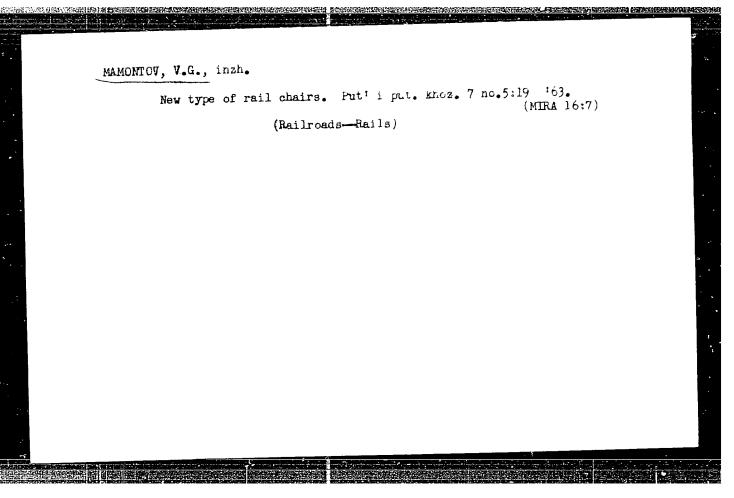
[Specifications for the laying and maintenance of continuous
rail tracks] Tekhnicheskie usloviia na ukladku i soderzhanie
besstykovogo puti. Moskva, Transzheldorizdat, 1963. 81 p.
(MIRA 16:5)

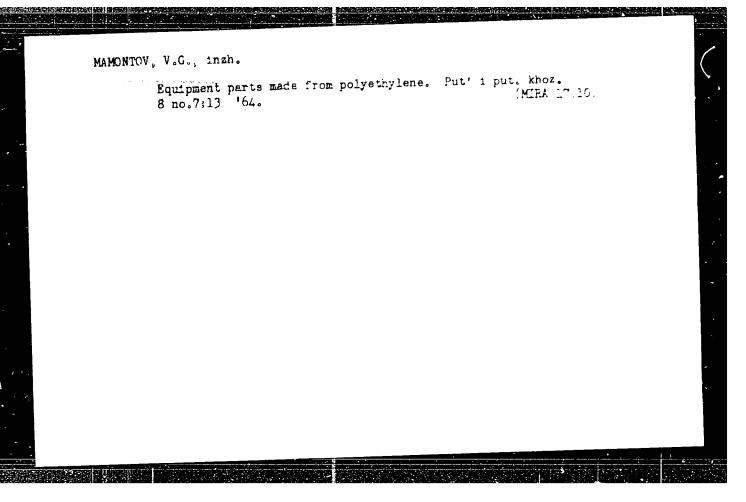
1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i sooruzhemiy. (Railroads--Track)
(Railroad engineering--Tables, calculations, etc.)

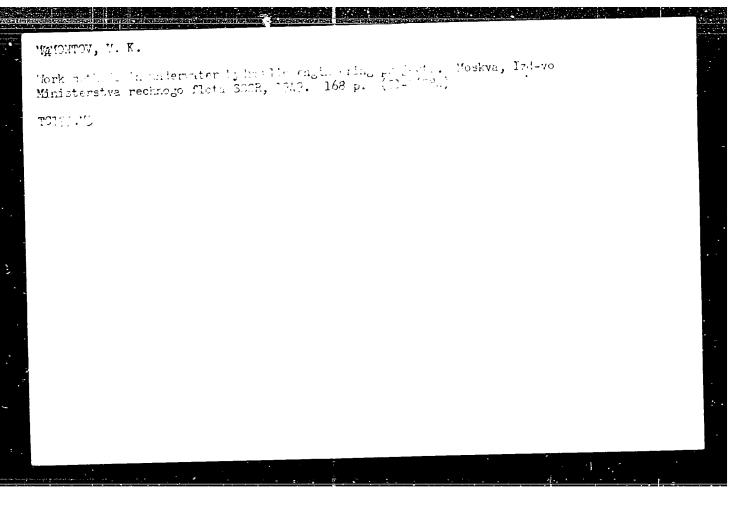
SLAVIKOVSKIY, N.A.; BARANOV, G.G.; MAMONTOV, V.G., inzh.

Improving the relieving of temperature stresses. Put' i put.khoz.
(MIRA 16;3)
7 no.4:17-18 '63.

1. Moskovsko-Kurskaya distantsiya Moskovskoy dorogi.
(Railroads-Rails)







KOGAN, L.A.; MAMONTOV, V.N.

Seismic effect of blasting. Trudy Inst. seism. stroi. i seism. 11:
(MIRA 16:5)

(Blasting) (Shock waves)

1, 37654-65 ENA(h) /ENT(1)

8/0169/65/000/001/G015/G016 ACCESSION NR: AR5008607

SOURCE: Ref. zh. Geoffzika, Abs. 1673

AUTHOR: Eukhtikova, L. I.; Kozloz, A. V.; Mamontov, V. N.; Frantsuzova, V. L.;

Prikhod'ko, L. V.

TITIE: Working characteristics of seismographs of some stations in Central Asta

CLIMI SCHROK: Traito-t seysmostork, str-valt seysmol, An TadzhSSR, v. 12, 1964(133-195

TOPIC TAGS: seismology, seismograph

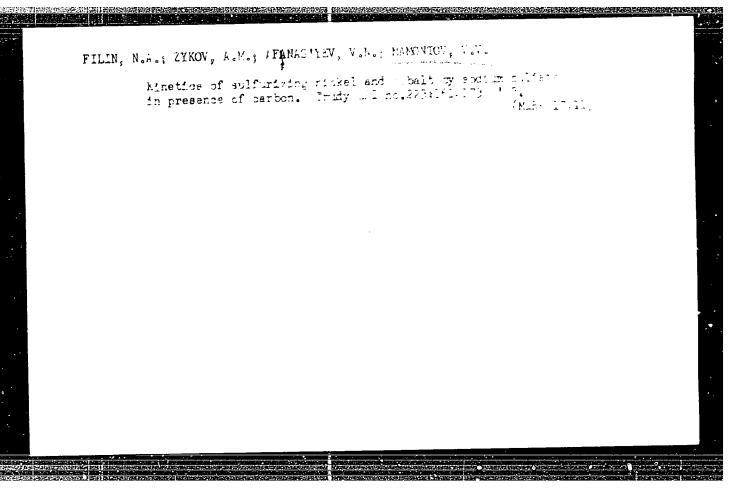
TRANSTATION: Some shortcomings in the determination of the parameters of the seismic apparatus of the network of seisnic stations are noted. There was found to be a wide diversity in the parameters for the stations of Central Asia. The bulletins giving seismograph parameters nowhere indicate the accuracy of their determination. Using the examples of the SK and VEGIK seismographs, it is shown that knowledge of the accuracy of determination of the parameters plays an important role in determinations of their dynamic characteristics. For example, a 10% error in determination of the parameters can cause an error in the determination of magnifdiation of our to 30%. The "Byulleten' seysmicheskoy seti SSR" contains some data

L 3765L-65 ACCESSION NR: ARSO0860	V	0
on the parameters of so unsuitable for computal frequencies. It is ex tics to be left to each published in the form	ismic apparatus. These data are gion of the dynamic characteristics remely irrational for the computat interpreter. It is proposed that if detailed tables. Such work alrestype in Gentral Asia for the peritons of Tadzhikistan for 1955-1962.	in a productange of Lon of the characteris- apparatus data be ady has been done for 14 # od 1955-1959 and for
SUR DODE: ES	ENCL: 00	AE

MAMONTOV, V.P.; GRISHCHENKO, S.S., redsktor; MINYAYEVA, G.A., redsktor; KRICHEVSKAYA, L.M., tekhnicheskiy redsktor

[Organizing the production of shipyard shops for the "continuous-position" system of shipbuilding] Organizatsiia proizvodstva. stapel'nogo tsekha pri potochno-pozitsionnom metode postrolki andov. [Lening rad] Gos. izd-vo sudostroit. lit-ry, 1952. 126 p. [Microfilm].

(Shipbuilding)



L 16811-66 EWT(1) SCTB DD SOURCE CODE: UR/2865/65/004/000/0646/0654

AUTHOR: Antsyshkina, L. H.; Kirilenko, N. S.; Mamontov, V. Ya.; Hel'nikov, G. B.; Ryabov, F. P.

ORG: none

9**0** 8+1

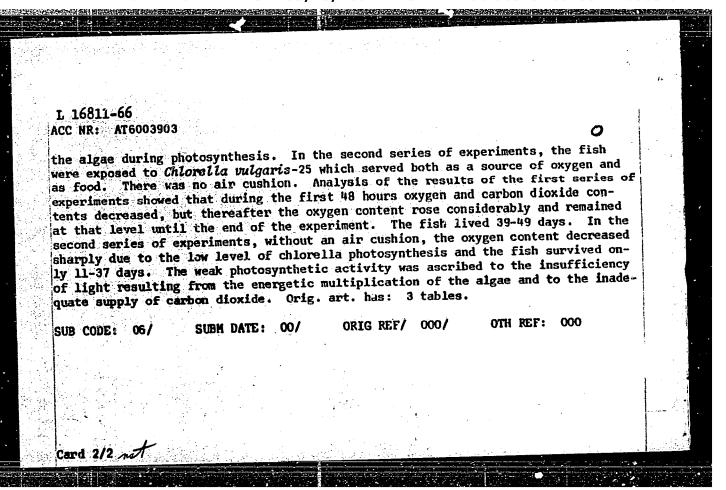
TITLE: Experiment on fish kept in hermetically sealed aquariums with and without Chlorella

SOURCE: AN SSSR. Otdeleniye biologicheskih nauk. Problemy kosmicheskoy biologii,

TOPIC TAGS: algae, Chlorella, photosynthesis, oxygen, closed ecology system, carbon dioxide

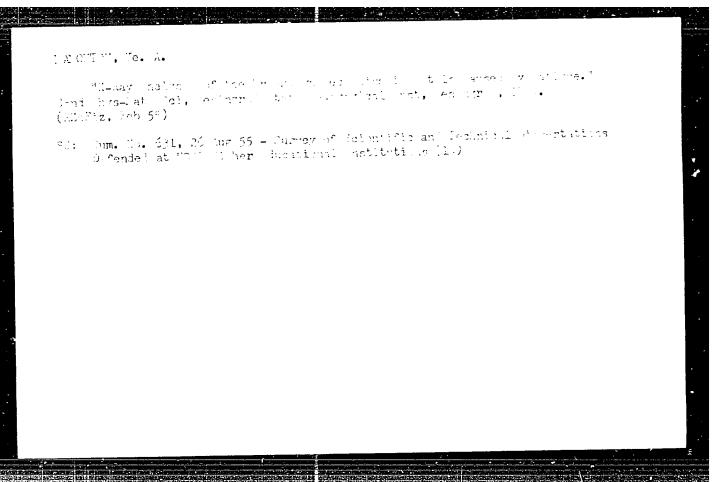
ABSTRACT: Two series of experiments were performed with crucian carp and algae to determine the survival time of the fish. In the first series, the aquarium was divided into two compartments by a partition 6 cm from the top. One compartment (8 liter capacity) contained Chlorella pyrenoidosa-82 while the other (16 liter capacity) contained the fish. Both were connected by an air cushion through which the gases diffused in two directions. The fish were supplied with oxygen released by

Card 1/2



MAMONTOV, Vladimir Yakovleyich; VETYUKOV, I.A., red.; SOKOLOVA, S.I., tekhn.red.

[N.E. Vvedenskii, physiologist; philosophy, and sociopolitical and scientific activity] Fiziolog N.E. Vvedenskii; mirovoz-zrenie, obshchestvenno-politicheskaia i nauchnaia deiatel nost. Pod red.I.A. Vetiukova. Vologda, Vologodskoe knizhnoe izd-vo, 1960. 100 p. (MIRA 13:12) (Vvedenskii, Nikolai Evgen'evich, 1852-1922)



MAMON TOX IN M.

USSR/Solid State Physics - Structure of Deformable Materials, E-8

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34808

Author: Terminasov, Yu. S., Anosova, K. I., Mamontov, Ye. A.

Institution: None

Title: X-Ray Diffraction Investigation of the Mechanism of Damage of Ferrous and Nonferrous Metals by Fatigue

Original Periodical: Uch. zap. Leningr. gos. ped. in-t., 1955, 3, 176-179

Abstract: An x-ray diffraction determination was made of the crytallite stresses and distortions of the atomic lattice of specimens of steel of 3 different grades, and also of brass, phosphor bronze, and red copper. The criterion for fatigue to stresses of the III kind, established previously by Terminasov, were confirmed for the 30 and U-10 grade steels. It was observed that in the case of a steel specimen with a chromium coating the fatigue crack originates in the inside layers of the coating, and the outer layers are damaged only in the final fracture. For specimens made of nonferrous metals one observes an increase in the stresses of the II and III kind with increasing number of cycles. The generality of the laws characterizing the fatigue processes in various metals has been established.

1001

-1-

MAMONTON, Ye. H

124-1957-10-12249

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 144 (USSR)

AUTHOR:

Mamontov, Ye. A.

TITLE:

X-Ray Investigations on Fatigue in Steel (Rentgenograficheskoye

issledovaniye ustalosti staley)

PERIODICAL: Uch. zap. Leningr. gos. ped. in-ta, 1956, Vol 125, pp 31-48

ABSTRACT:

Description of the results of an X-ray investigation of U-10 steel and steel 30. The Author arrives at the conclusion that the development of secondary stresses depends on the type of material and may differ according to the properties of the material. The A. concedes that the accumulation of the tertiary stresses, as such, does not necessitate the fatigue failure of the material. The A. regards as confirmed the possibility of a fatigue-limit estimation on the basis of a sharp decline in the intensity of the interference lines (Terminasov's fatigue criterion)

I. V. Vikker

Card 1/1

CIA-RDP86-00513R001032110003-0 "APPROVED FOR RELEASE: 03/13/2001

137-58-2-3607

j`. · Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 189 (USSR)

Mamontov, Ye.A. / UTHOR:

Y

X-ray Investigation of Galvanized Iron (Rentgenograficheskoye TITLE:

issledovaniye gal'vanicheskogo zheleza)

Uch. zap. Leningr. gos. ped. in-t im. A.I. Gertsena, PERIODICAL:

1957, Vol 140, p 59

It is shown that the properties of metals produced by elec-ABSTRACT:

trolytical means differ significantly from the properties of the same metals produced by other methods. An electrolytic coating of metals by Fe has hitherto never been used in the field because of the low mechanical and other characteristics resulting. V.P. Moiseyeva and O.S. Popova have produced Fe coatings that are not only endowed with good mechanical properties, but are even capable of taking hardening. The paper is devoted to a study of the effect of the concentrations of organic additives and also of the annealing temperature on changes in metallic coatings and on the parameter of the crystal lattice. Changes in the parameter of the Fe coating and changes in the metallic coatings are reviewed in the light of

the microhardness and the H content of the coatings. Card 1/1

2. Iron coatings -- Properties 1. Iron plating... Yorny . broy ...

CIA-RDP86-00513R001032110003-0" APPROVED FOR RELEASE: 03/13/2001

MAMONTOV, Ye.A.; TERMINASOV, Yu.S.

I-ray investigation of the fatigue of steel. lzv. AM SSSR.
Ser. fiz. 22 no.10:190-192 0 '58. (MIRA 12:3)

l.Leningradskiy gosudarstvennyy pedagogicheskiy institut im. A.I.
Gertsena. (Steel--Fatigue) (X rayu)

MAMONTOY / A.

66350

18.9200, 18.7400

sov/81-59-19-67366

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 66 (USSR)

AUTHORS:

Mamontov, Ye.A., Petrov, Yu.N.

TITLE:

The Roentgenographic Investigation of Electrolytic Iron

PERIODICAL:

Uch. zap. Leningr. gos. ped. in-ta im. A.I. Gertsena, 1958, Vol 141,

pp 173 - 183

ABSTRACT:

Distortions of class II and III in electrolytic iron have been studied in dependence on the concentration of surface-active substances in the electrolyte and the temperature of heating, as well as the structure, the hardness, and the quantity of adsorbed gases in electrolytic Fe. The introduction of sugar and glycerol into the chloride electrolyte increases the distortions of class II and III which pass through a maximum with an increase in the concentration of the additions. The maximum of the distortion of class III corresponds to the maximum of cathode polarization. The distortions of class III are the principal cause for the change in hardness of electrolytic coatings. At heating of electrolytic Fe to 300°C the distortions of class II and III increase and pass through a maximum if the initial distortions are in-

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110003-0

The Roentgenographic Investigation of Electrolytic Iron

66350

significant. In the case of large initial distortions, heating to 300°C has no effect on distortions and at a higher temperature the distortions decrease. The hardness of Fe precipitates changes in an analogous way. The parameter of the Fe crystal lattice does not change at heating to 300°C, at heating to 700°C it decreases and at further temperature increase it remains constant. The changes in the lattice distortions and in the microhardness of Fe precipitates with the heating temperature are explained by the elimination of adsorbed H2 from Fe at a temperature of up to 300°C and by the elimination of H₂ from the solid solution of of Fe, which causes additional distortions of the crystal lattice and of the hardness. The texture of electrolytic Fe is extremely

Z. Solov'yeva

Card 2/2

82338

18.8200

s/139/60/000/03/023/045

E073/E335

AUTHOR: TITLE:

Mamontov, Ye.A.

Investigation of the Thermal Fatigue of U-10 Steel and of

Armco Iron

Izvestiya vysshikh uchebnykh zavedeniy, Fizika, PERIODICAL:

1960, Nr 3, pp 130 - 132 + 1 plate (USSR)

ABSTRACT: Various authors (Refs 1-4) have shown that during thermal fatigue a change takes place in the geometric dimensions of some materials (uranium, aluminium-zinc alloys, copper-zinc alloys and others). The first part of this paper contains results of measurements of the effect of thermal fatigue on the steel U-10. The second part contains results of X-ray and metallographic investigations of the thermal fatigue of armco iron. On the basis of these and also on the basis of the results of earlier investigations (Ref 5), the author expresses his views on the most likely mechanism of thermal fatigue of steel. The U-10 steel specimens (6 mm dia, 54 mm reference length) were investigated in air under the following two sets of conditions: 1) heating and holding in a tubular furnace for 90 sec

Cardl/3

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s/139/60/000/03/023/045 E0Z3/E325 and of

Investigation of the Thermal Fatigue of U-1035teel and of Armco Iron

at the γ -phase temperature, 900 °C, followed by quenching in water (12 - 20 °C) by letting the samples fall into a water-filled container; 2) this set of conditions differed from the previous one only by the fact that the heating temperature of the specimens was 700 °C (below the A_2 point). The distance of the

reference lines was measured with a comparator of an accuracy up to 5 μ . Following that, the specimens were subjected to cyclic slow heating (8 min) and cooling (16 min) in vacuum. The results seem to indicate that a repeated phase transformation which is accompanied by changes in the volume of the phases in the steel U-10 (slow heating followed by cooling in vacuum) brings about a lengthening of the specimens and a reduction in their diameter, whilst thermal stresses caused by a temperature gradient led to a reduction in their length. The second factor is predominant since in the case of the simultaneous presence of thermal stresses and phase transformations, the specimens become shorter. The

Card2/3

82338 S/139/60/000/03/023/045

Investigation of the Thermal Fatigue of U-10 Steel and of Armco Iron

> experimental data on armco iron showed that thermal fatigue was basically similar to the mechanism found in earlier work for steel 30. Due to the high temperature gradient along the cross-section of the specimen during high-frequency heating, non-uniform expansion occurs, which results in the generation of thermal stresses which are the higher, the higher the temperature gradient. The thermal stresses lead to a breaking up of the crystallites which is apparently accompanied by the development of Type II and Type III distrtions, at least in the regions which are located in the direct neighbourhood of the grain fracture. At high temperatures favourable conditions occur in intensive diffusion processes. There are 2 figures and 8 Soviet references.

ASSOCIATION: Leningradskiy gosudarstvennyy pedinstitut imeni A.I. Gertsena (Leningrad State Pedagogical Institute imeni

A.I. Gertsen)

SUBMITTED: July 2, 1959

Card 3/3

MAMONTOV, Ya.A.

Diaphragms giving total internal reflection of X rays. Zav.lab. no.4:496-497 '60. (MIRA 13:6)

 Leningradskiy gosudarstvennyy pedagogicheskiy institut. (X rays--Equipment and supplies)

4000

18 8200,

S/139/62/000/004/014/018 E193/E383

AUTHOR: Mamontov, Ye.A.

TITLE: A study of thermal fatigue of aluminium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no. 4, 1962, 154 - 157

TEXT: The object of the present investigation was to study the changes in the fine structure of thermally-cycled pure aluminium. In the first series of experiments, wire specimens 0.8 mm in diameter with an average grain size of 1-2 mm were held in a molten salt bath at 420 °C for 10 sec and quenched, the resultant increase in length after 400 cycles amounting to 4.4%. In the second series of tests, discs 10 mm in diameter, 5 mm thick, with an average grain size of 0.4 mm, were heated rapidly (in about 0.2 sec) by induction heating to 350 or 500 °C and cooled in air. The following mechanism of thermal fatigue of aluminium, based on the results of both X-ray and metallographic analyses of various test pieces, was postulated. The temperature gradients set up in a thermally cycled specimen caused fragmentation of grains and mosaic blocks, the latter Card 1/2

A study of

S/139/62/000/004/014/018 E193/E383

components being rotated at the same time by a small angle. Fragmentation of grains and blocks cannot occur without causing distortion of the crystal lattice; it has been shown, however, that all the lattice distortions are localized in regions

smaller than 10^{-5} cm and that they are eliminated in the course of thermal cycling owing to intensive diffusion processes which take place at the relatively high test temperatures. The increase in length of thermally cycled specimens is evidently caused by rotation of the mosaic blocks. Thus, the mechanism of thermal fatigue of pure aluminium is basically the same as that proposed for steel 30 (Ye.A.Mamontov. Uch. zap. LGPI im. Gertsena, 148, 1958), steel >10 (UIC) and armco iron (Ye.A. Mamontov, Izv. vuzov SSSR, Fizika, no. 3, 1960).

ASSOCIATION:

Novosibirskiy elektrotekhnicheskiy institut

(Novosibirsk Electrotechnical Institute)

SUBMITTED:

May 17, 1961

Card 2/2

JD/#B L 43093-66 IJP(c) ENT(m)/T/ENP(t)/ETI

SOURCE CODE: UR/0137/66/000/011/1057/1057 (N,A)ACC NR: AR6014384

AUTHORS: Petrov, Yu. N.; Mamontov, Ye. A.; Parsadanyan, A. S.; Vyrlan, A. I.; Stanko, A. A.; Kalmutskiy, V. S.

TITLE: Influence of thermal treatment on the electrode potential of steel

SOURCE: Ref. zh. Metallurgiya, Abs. 111396

REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta k Kishinev, 1965, 86-87

TOPIC TAGS: steel, carbon steel, electrode potential / St 45 steel

ABSTRACT: On the basis of comparison of the magnitude of stationary potentials of quenched and nonquenched specimens in a working electrolyte of iron-plating solution and 30% sulfuric acid solution, it is concluded that potentials of the quenched specimens are more positive than those of the nonquenched specimens.

The behavior of specimens (St 45 quenched) during anodic tree ment in 30% sulfuric acid solution shows that the more intensive passivation occurs for quenched specimens. The change of the stationary potentials of quenched carbon steel towards electropositive values is explained by the presence of residual UDC: 669.14.018.26:621.78 Card 1/2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001032110003-0"

L 43093-66

ACC NR: AR6014384

austenite. Experience in the application of the iron-plating process shows that obtaining a strong durable surface on quenched parts is associated with greater difficulties as compared with nonquenched parts. I. Tulupova Translation of abstract

SUB CODE: 11

Card 2/2/1/4

LAZAREV, Anatoliy Abramovich, inzh.; MITSYN, P.V., inzh.; NIKIFOROV, A.A., inzh.; ROZET, I.Ya., inzh.; MAMONTOV, Ye.V., inzh.; KOBYLYAKOV, L.M., red.; GOR'KOVA, Z.D., tekhn.red.

[Manual on the operation of S-80 and S-100 tractors] Rukovodstvo po ekspluatatsii traktorov S-80 i S-100. Pod red. E.V. Mamontova. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 357 p. (MIRA 11:1)

(Tractors)

MAMONTOV, Yu.N., inzh.

Diagrams to determine the efficiency of guide nozzle setting and propeller design. Sudostroenie 25 no.8:9-11 Ag '59.

(Ship propulsion)

(Ship propulsion)

HELYAK, Yu.L., kand.tekhn.nauk; M.MONTOV, Yu.N., inzh.

Operational testing of strength and losses in propulsive speed of barge tankers and diesel freighters. Trudy TSNIRF no.40:49-68 '59. (MIMA 13:6)

(Barges-Testing) (Freighters-Testing)

(Ship propulsion-Testing)

MAMORTON Yu. P

USSR/General Problems of Pathology - Cytotoxins.

T-3

Ass Jour

: Ref Zhur - Biol., No 3, 1958, 12584

Author

: Mamontov, Yu.P., Chernoshtanov, A.A.

Inst

: Not given

Title

: The Effect of Immunization with the Antigen from Cells of the Reticule-Endothelial System on Certain Blood Indices

of Rabbits.

Orig Pub

: Sb. stud. naych. rabot Alma-Atinsk. zoovet. in-ta, 1956,

vyp. 2, 58-62.

Abstract

: After determining the Hb content, and WBC and RBC counts, the rabbits received 2,6 and 8 ml of a 2% suspension of cells from the R.E. system. With an interval of 5 days between injections; a total of 5 injections were given. It is not indicated to what species the antigen belonged. Three and 24 hours after each injection a blood study was

Card 1/2

USSR/General Problems of Pathology - Cytotoxins.

T-3

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 12584

repeated. Immunization was accompanied by increases in Hb (the rise was, on the average, from 59.8 to 67.8% after the third injection of the antigen) and WBC count (averaged from 7000 to 9400 per cu. mm toward the end of immunization). There was no significant change in the red count.

Card 2/2

MAN'HITOVA, A.K. A rare case of completed extrauterine pregnancy with normal uterine pregnancy. Akash. i gin. to.6:80-81 N-D '54. (MLRA 8:2) 1. Iz rodil'nego otdeleniya Leningradskoy bol'nitsy (glav. vrach F.v.Datsykov) Krasmodarskogo kraya. (PHENANCY, ESTOPIC abdom. successful delivery of twin inf., with simultaneous normal pregn. & delivery) (PREPHANCY, complications uterine with simultaneous extrauterine preg., successvul delivery of twins)

Z Z

SMIRNOV, V.S.; KAMENSKIY, M.D.; PODPORKIN, V.G.; DUKELISKIY, A.I.;
NEYMAN, L.R.; ZALESSKIY, A.M.; KOCTENKO, M.V.; R TDONIK, V.C.;
SHCHERBACHEV, C.V.; LOFATIN, I.A.; MAYCITOVA, A.M.; FILMENTOV,
S.N.; KRYUKOV, K.P.; SIMELOBOV, K.S.; BOSHNYAKOVICH, A.D.;
BURGSDORF, V.V.; HOVGOROLTSEV, B.P.; GOKHBERG, M.M.; STEFANOV, K.S.

Nikelai Pavlovich Vinogradov; obituary. Elektrichostvo no.10: 91-92 0 '61. (MIRA 14:10) (Vinogradov, Nikelai Pavlovich, 1886-1961)

MAMONTOVA, A.N., kand.sol'skokhozyaystvennykh nauk

Immunological heterogeneity of individual organisms of a fungus population, its origin and role in the specialization of furgital Agrobiologia no.4:607-614 Jl-Ag '63. (NL., 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy, Leningrad. (Fungi)

(Antigens and Antibodies)

MAMONTOVA, A. N.

Mamontova, A. M. "Serological Method of Identification of Leaf Roll of Potatoes," in Virus Diseases of Flants and Measures for their Coutrol, Works of the Conference on Virus Diseases of Flants 1940, Publishing Mouse of the Academy of Science USDR, Moscow, 1941, pp. 316-329. 464.32 So8

So: SIRA JI - 90-53, 15 Dec., 1953

MAMONTOVA, A. M.

Mamontova, A. N. "Qualitative Changes in the Protein Complex of Fungi in Relation to Culture Media (Experiments with Ascochyta disi and Colletotrick m linicolum),"

<u>Zhurnal Chanchei Biologi</u>, no. 11, 1950, pp. 462-464. 442.8 Z6

Co: JIRa JI - 90-53, 15 Dec., 1953

MAMONTOVA, A. N.

"The Effect of Grafting on Qualitative Changes of Proteins of the Graft and Stock,"

SO: Dok. An., 70, No. 5, 1950.

Mbr., All-Union Sci. Res. Inst. Plant Protection, Leningrad, -c1950-.

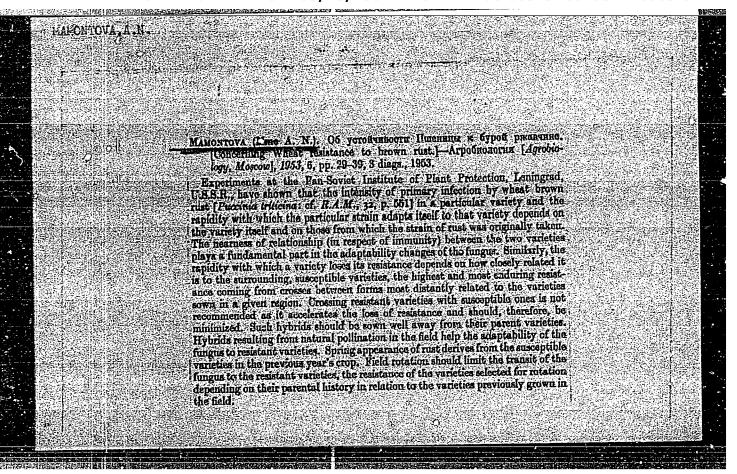
MAMONTOVA, A. N.

Mamontova (Mass A. N.). Honyvenuse sacoidosectushum anterprobum cusporter.

(Overhind highly active antifungal sers.)—Manyloboxochus (Microbiology, Microbiology, 21, 2, pp. 200-204, 1862).

The results of experiments at the Pan-Soviet Scientific Research Institute for Plaint Protection, Leningrad, indicated that in attempting to obtain highly active antifuncal sers. [cf. R.A.M., 18, p. 182] with one and the same method of immunitation of [unspecified] animals, i.e., by introducing internally a spore suspension of wheat loose amut (Untilogo tritici) 313, p. 11; 33, p. 10), the spores having previously germinated, the amount of globulin introduced into the animal plays a fundamental part. When the number of U. tritici spores introduced is increased the strength of the sers obtained is also increased. A long interval between the two series of injections, however, reduces the strength. The low activity of antifungal sera is explained by the insignificant content of easily soluble globulins in fungi. Activity is increased when animals are immunized with globulin obtained from the fungus spores. The highly active sera give a positive reaction with the antigen of a susceptible wheat variety within 1 to 15 minutes and in the course of an hour it reaches its maximum intensity.

2112 of Resistance by the Plant Variety," A. N. Mamontova 21112 **GUBLIC** Reeding on the Plant as One of the Reasons for Loss which is resistant, are used. When a great number Expts on the adaptation of brown rust to different of wheat varieties is planted, the fungus becomes adapted to all of them and the likelihood that it becomes adapted to the new host by modifiying its new protein medium. Adaptation to a resistant variety is expedited if susceptible varieties of 21 Jan enzymatic app in such a manner that it suits the wheat, which are close in protein compn to that Diseases of Wheat varieties of wheat showed that after living for several generations on some variety, the fungus Dok Ak Nauk SSSR" Vol LXXXII, No 3, pp 493-496 "Modification of the Parasite in the Process of rill attack new varieties is increased. USSR/Biology (Agriculture) - Fungus MAMC NTC VA. · 11 ٠Ÿ



USSR/Plant Diseases - Diseases of Cultivated Plants.

0-3

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30194

Author

Mamontova, A.N.

Inst

The All-Union Institute for Plant Protection.

Title

: The Role of Parasite Variability in Wheat Infection.

Orig Pub

: V sb.: Yopr. metodiki selektsii pshenitsy i kukuruzy.

Khar'kov, Un-t, 1957, 107-117.

Abstract

Experimental and production data on the variability of infections of wheat varieties by Puccinia triticina Erikss. With regard to genetic (immunological) considerations. Recommendations are given on the correct districting of the varieties, on the immediate introduction of hardy varieties into the large areas, the selection of parental pairs for crossing with regard to their resistance in the long-range view, etc. This study was made at the All-Union

Institute for Plant Protection.:

Card 1/1

-3 -

MANGETOVA, D.P., aspirant Riology of hemorrhagic metropathy [with summary in English]. Akush. i gin. 34 no.1:62-66 Ja-F'58. 1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.F.Zhordanina) lechebnogo fakul'teta II Moskovskogo meditainskogo inatituta imeni N.I.Pirogova. (MENDERHAGIA AND METRORRHAGIA, etiol. & pathogen. IS disord. (Rus)) (NERVOUS SYSTEM, dis. etiol. of hemorrh. metropathy (Rus))

LETOV, G.S.; LETOVA, G.I.; MAMONTOVA, E.V.

Water vole in Tuva. Izv. Irk. gos. nauch.-issl. protivochum. inst.
21:298-303 '59. (MIRA 14:1)

(TUVA AUTONOMOUS PROVINCE—WATER VOLES)

MAMONTOVA, E.V.; LETOV, G.S.

Importance of the rodents of Tuva in the epizooticlogy of infertious natural focus diseases. Dokl. Irk. gos. nauch.-issl. protivochum. inst. no.5:17-19 163 (MIFA 18:1)

GERSHOV, M.M.; MAMONTOVA, L.D.; MATVEYEVA, T.P.; VEYSMAN, S.Ya.

Washing and dyeing wool fabrics in the same bath. Tekst. pron. 18

no;1:55-56 Ja '58.

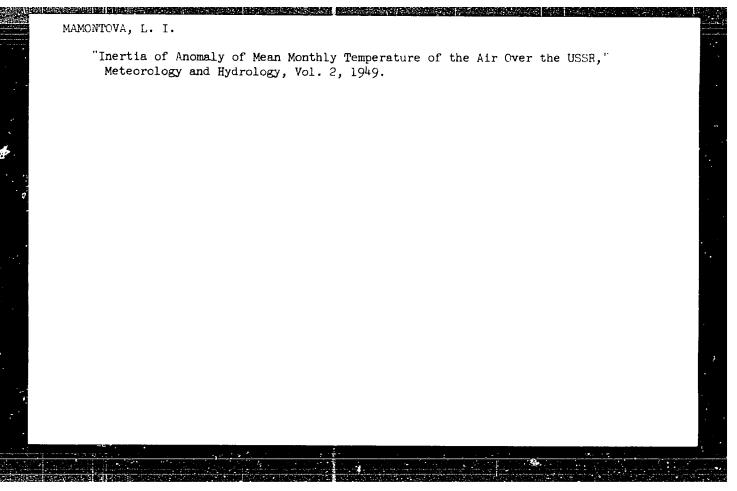
(Dyes and dyeing--Wool)

GERSHOV, M.M.; MAMONTOVA, L.D.; MATIS, V.A.; MOZHNIKO, N.N.

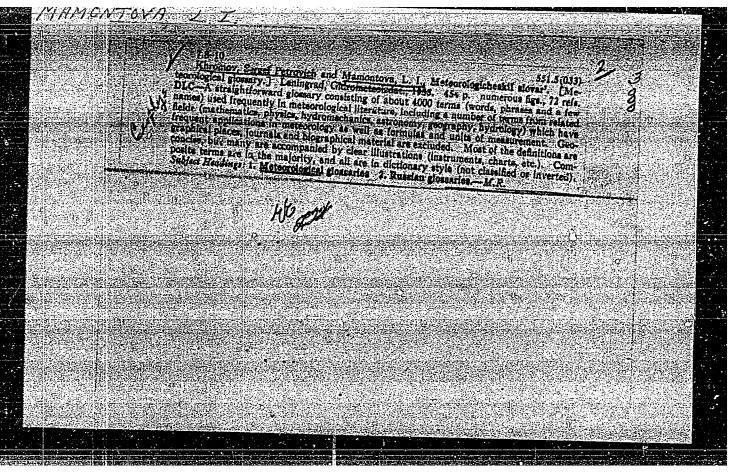
Using reduction-oxidation process in bleaching wool caps. Leg. prom.
(MIRA 11:2)

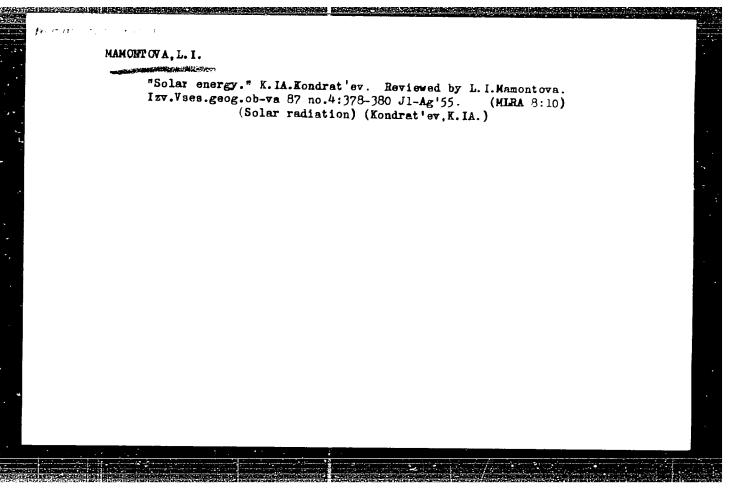
18 no.2:36-37 7 '58.

(Bleaching)



"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001032110003-0





MAMONTOVA, Lidiya Ivanovna; KHROMOV. Sergey Petrovich; PROTOPOPOV,

V.S., red.; BRAYNINA, M.I., tekhn.red.

[English-Russian meteorological dictionary] Anglo-russkii
meteorologicheskii slovar'. Leningrad, Gidrometeor.izd-vo.
1959. 172 p. (MIRA 12:4)

(English language-Dictionaries-Russian)

(Meteorology-Dictionaries)

\$/0000/63/000/002/0075/0077

ACCESSION NR: AT4046120

AUTHOR: Mamontova, L. I.

TITLE: Spectrochemical determination of impurities in some very pure lithium and cesium salts

SOURCE: USSR. Gosudarstvennyky komitet khimicheskoy i neftyanoy promykshlennosti. Promykshlennosti khimicheskikh reaktivov i osobo chistykh veshchestv (Industry of chemical reagents and extra pure substances); informatsionnyky byulleteni, no. 2. Moscow, IREA, 1963, 75-77

TOPIC TAGS: lithium, cesium, spectrochemical analysis, diethyldithiocarbamate, carbon electrode, 1SP-22 spectrograph, heavy metal

ABSTRACT: A method has been developed for the determination of heavy metal impurities in high-purity salts (such as lith)um chloride, nitrate and sulfate and cesium nitrate) at a sensitivity of 1 x 10⁻⁴%. The salts are dissolved in water, enriched by the extraction of the diethyldithiocarbamates of copper, iron lead, maganese, tin, silver, cobalt, nickel, and antimony with ethyl acetate (at pH 5-6), and the spectra are recorded. The standard samples were prepared on a spectrally pure graphite powder, which did not contain these impurities. After chemical enrichment, the samples and standards were photographed on the ISP-22 spectrograph

ACCESSION NR: AT4046120

with a three-lens illuminating system at 10 amperes direct current. The standard samples were placed into carbon electrodes 6 mm deep and 4.5 mm in diameter. The following lines were used: Fe-2599.4 Å, Mn-2794.81 Å, Cu-3247.5 Å, Co-3044.0 Å, Ni-3050.0 Å, Ag-3280.7 Å, Pb-2833.1 Å, Sb-2593.1 Å, Sn-2839.9 Å. The accuracy of the method was confirmed for Pb, Co, Ni, Mn and Cu in lithium sulfate, with a mean square relative deviation of 19.1%. The greatest difficulties are encountered with copper and iron because of their possible presence in the carbon electrode and in the reagents used (water and sodium diethyldithlocarbamate). Orig. art. has: I table and I formula.

ASSOCIATION: none

SUBMITTED: 27Nov63

ENCL: 00

SUB CODE: 1C, OP

NO REF SOV: 002

OTHER: 000

Card 2/2

AKHMEROV, A.Kh., kend.biol.nauk; BATENKO, A.I., kend.sel'ekokhoz.nauk; BRUDASTOVA, M.A., kend.tekhn.nauk; GOLOVINSKAYA, K.A., kend.biolog.nauk; GCRDON, L.M., kend.ekon.nauk; DOROKHOV, S.M., rybovod-biolog; YEROKHINA, L.V., rybovod-biolog; IL'IN, V.M., rybovod-biolog; ISAYEV, A.I., rybovod-biolog; KADZEVICH, G.V., rybovod-biolog; KOMAROVA, I.V., kand.biol.nauk; KRYMOVA, R.V., rybovod-biolog; KULAKOVA, A.M., rybovod-biolog; MAMONTOVA, L.N., kand.biol.nauk; MEYSNER, Ye.V., kand.biol.nauk; MIKHEYEV, P.V., kand.biol.nauk; MUKHINA, R.I., kand.biol.nauk; PAKHOMOV, S.P., kand.biol.nauk; SUKHOVERKHOV, F.M., kand.biol.nauk; SOKOLOVA, Z.P., rybovod-biolog; TSIUNCHIK, R.I., rybovod-biolog; RYZHENKO, M.I., red.; KOSOVA, O.N., red.; SOKOLOVA, L.A., tekhn.red.

[Handbook on pond fish culture] Spravochnik po prudovomu rybovodstvu. Red.kollegiia: A.I.Isaev i dr. Moskva, Pishchepromizdat, 1959. 374 p.

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1. Moscow. Vserossiyskiy nauchno-issledovatel skiy institut prudovogo rybnogo khozyaystva.

(Fish culture)

MAMONTOVA, L.N.

How to raise more fish in the pond. Priroda 50 no.9:104-105 S '61. (MIRA 14:8)

1. Vsesoyuznyy nau kmo-issledovatel'skiy institut prudovogo rybnogo khozyaystva (Moskva).

(Fish culture)

MAMONTOVA, L.N.

Introduction of ammonium nitrate and superphosphate as a means of enriching the natural feed supply in ponds. Trudy sov. Ikht. kom. no.14:30-32 '62. (MIRA 15:12)

l. Vserossiyskiy nauchno-issledovatel'skiy institut prudovogo rybnogo khozyaystva (VNIPRKh).

(Fishponds)

(Fertilizers and mamures)

INVENTOR: Leybov, E. L.; Kurochkin, Yu. M.; Avilov, V. Ye.; Zhironkin, Y. F.; Sokolov, I. L.; Mamontova, L. T. ORG: none TITLE: Vacuum electromagnetic relay. Class 21, No. 184351 SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 59-60 TOPIC TAGS: electric relay, vacuum reisy. ABSTRACT: A vacuum electromagnetic relay is introduced whose coil, wound with a heat-resistant wire, such as glass wire, is placed together with a contact system in Fig. 1. Vacuum relay 1 - Coil; 2 - contact system; 3 - small leg; 4 - glass tube; 5 - armature; 6 - return spring; 7 - plate.	CE NR: AP6029897	SOURCE CODE: UR/0413/66/000/015/0059/0060
SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 59-60 TOPIC TAGS: electric relay, vacuum reisy. ABSTRACT: A vacuum electromagnetic relay is introduced whose coil, wound with a heat-resistant wire, such as glass wire, is placed together with a contact system in Fig. 1. Vacuum relay 1 - Coil; 2 - contact system; 3 - small leg; 4 - glass tube; 5 - armature; 6 - return spring; 7 - plate.	NVENTOR: Leybov, E. L.; Kurochkin, Yuokolov, I. L.; Mamontova, L. T.	. H.; Av110V, V. 18., 2022
TOPIC TAGS: electric relay, vacuum relay ABSTRACT: A vacuum electromagnetic relay is introduced whose coil, wound with a contact system in heat-resistant wire, such as glass wire, is placed together with a contact system in Fig. 1. Vacuum relay 1 - Coil; 2 - contact system; 3 - small leg; 4 - glass tube; 5 - armature; 6 - return spring; 7 - plate.	TITLE: Vacuum electromagnetic relay.	Class 21, No. 184351
ABSTRACT: A vacuum electromagnetic relay is placed together with a contact system heat-resistant wire, such as glass wire, is placed together with a contact system; 1 - Coil; 2 - contact system; 3 - small leg; 4 - glass tube; 5 - armature; 6 - return spring; 7 - plate.	SOURCE: Izobret prom obraz tov zn, no	technique:
1 - Coil; 2 - contact system; 3 - small leg; 4 - glass tube; 5 - armature; 6 - return spring; 7 - plate.	ABSTRACT: A vacuum electromagnetic re	lay is introduced whose coil, wound with a e, is placed together with a contact system in
7 - plate.	heat-resistant war-	1 - Coil; 2 - contact system;
• (MAA)		5 - armature; 6 - recuta options,
Card 1/2 UDC: 621.318.56. 04-186.2	Cord 1/2	UDC: 621.318.56. 04-186.2